Title (en)

DELTA-9 ELONGASES AND THEIR USE IN MAKING POLYUNSATURATED FATTY ACIDS

Title (de)

DELTA-9-ELONGASEN UND DEREN VERWENDUNG BEI DER HERSTELLUNG MEHRFACH UNGESÄTTIGTER FETTSÄUREN

Title (fr)

DELTA-9 ELONGASES ET LEUR UTILISATION POUR PRODUIRE DES ACIDES GRAS POLYINSATURES

Publication

EP 1957641 A2 20080820 (EN)

Application

EP 06837908 A 20061116

Priority

• US 2006044676 W 20061116
• US 73998905 P 20051123

Abstract (en)

[origin: US2007117190A1] The present invention relates to Delta9 elongases, which have the ability to convert linoleic acid [18:2, LA] to eicosadienoic acid [20:2, EDA]. Isolated nucleic acid fragments and recombinant constructs comprising such fragments encoding Delta9 elongase along with methods of making long-chain polyunsaturated fatty acids (PUFAs) using these Delta9 elongases in plants and oleaginous yeast are disclosed.

IPC 8 full level

C12N 9/10 (2006.01); **C12P 7/6427** (2022.01); **C12P 7/6458** (2022.01); **C12P 7/6472** (2022.01)

CPC (source: EP KR US)

C11B 1/025 (2013.01 - EP US); **C12N 9/10** (2013.01 - KR); **C12N 9/1029** (2013.01 - EP US); **C12N 15/82** (2013.01 - KR); **C12N 15/8247** (2013.01 - EP US); **C12P 7/6427** (2013.01 - EP KR US); **C12P 7/6458** (2022.01 - EP KR US); **C12P 7/6463** (2013.01 - EP US); **C12P 7/6472** (2013.01 - EP KR US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

US 2007117190 A1 20070524; **US 7645604 B2 20100112**; AU 2006316610 A1 20070531; AU 2006316610 B2 20120614; AU 2006318738 A1 20070531; AU 2006318738 B2 20111222; BR PI0620552 A2 20111122; CA 2624661 A1 20070531; CA 2624661 C 20150630; CA 2625855 A1 20070531; CA 2625855 C 20160419; CN 101365788 A 20090211; CN 101365788 B 20121114; DK 1951866 T3 20141027; EP 1951866 A1 20080806; EP 1951866 B1 20140730; EP 1957641 A2 20080820; JP 2009517019 A 20090430; JP 5123861 B2 20130123; KR 20080071190 A 20080801; NO 20082466 L 20080820; US 2007118929 A1 20070524; US 2009119795 A1 20090507; US 2010075387 A1 20100325; US 2010175148 A1 20100708; US 2013254931 A1 20130926; US 8048653 B2 20111101; US 8049062 B2 20111101; US 8420892 B2 20130416; US 9150874 B2 20151006; WO 2007061742 A1 20070531; WO 2007061845 A2 20070531; WO 2007061845 A3 20070802

DOCDB simple family (application)

US 60156406 A 20061116; AU 2006316610 A 20061116; AU 2006318738 A 20061116; BR PI0620552 A 20061116; CA 2624661 A 20061116; CA 2625855 A 20061116; CN 200680051550 A 20061116; DK 06837764 T 20061116; EP 06837764 A 20061116; EP 06837908 A 20061116; JP 2008542346 A 20061116; KR 20087015062 A 20080620; NO 20082466 A 20080602; US 2006044480 W 20061116; US 2006044676 W 20061116; US 201313834813 A 20130315; US 60156306 A 20061116; US 61970609 A 20091117; US 72548210 A 20100317; US 99289906 A 20061116